CIVIL QUALITY CONSULTANTS & ENGINEERS

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ISO 9001:2000 CERTIFIED

CQCE/BBMP/DM/16/2020-2021 Date: 23.09.2020

Aggregate Gradation Test

	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01),BBMP,Bangalore
IRS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	23.09.2020

Total Weight of Sample: 10000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	705	7.1	7.05	92.95	90 - 100	
19.00	1425	14.3	21.30	78.70	71 - 95	
13.20	1396	14.0	35.26	64.74	56 - 80	
4.75	2658	26.6	61.84	38.16	38 - 54	
2.36	1145	11.5	73.29	26.71	28 - 42	
0.300	1296	13.0	86.25	13.75	7 - 21	
0.075	1152	11.5	97.77	2.23	2 - 8	

Total Weight of Sample: 10000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	685	6.9	6.85	93.15	90 - 100	
19	1542	15.4	22.27	77.73	71 - 95	
13.2	1198	12.0	34.25	65.75	56 - 80	
4.75	2653	26.5	60.78	39.22	38 - 54	
2.360	1024	10.2	71.02	28.98	28 - 42	
0.300	1296	13.0	83.98	16.02	7 - 21	
0.075	1104	11.0	95.02	4.98	2 - 8	

Note:

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Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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No. CQCE/BBMP/DM/16/2020-2021 Date: 24.09.2020

TEST REPORT ON STABILITY OF MIX

Client	:	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Agency	:	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01),BBMP, Bangalore
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	24.09.2020

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.98	9.53	9 Kn (min)
2	Marshal flow, mm	3.74	3.86	2 – 4
3	Percent air voids in Mineral Aggregate	14.48	13.46	13 – 15
4	Voids in Compacted Mix	3.72	3.83	3 – 6
5	Percent Voids filled with Bitumen	67.72	69.59	65 - 75
6	Density, g/cc	2.27	2.26	--

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No: CQCE/BBMP/DM/16/2020-2021

Date: 24.09.2020

TEST REPORT ON STABILITY OF MIX

Client	:	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency	:	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	24.09.2020

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.48	9.98	9 Kn (min)
2	Marshal flow, mm	3.93	3.75	2 – 4
3	Percent air voids in Mineral Aggregate	14.36	13.98	13 – 15
4	Voids in Compacted Mix	3.98	4.12	3 – 6
5	Percent Voids filled with Bitumen	67.98	69.12	65 - 75
6	Density, g/cc	2.27	2.27	--

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CQCE/BBMP/DM/16/2020-2021

Date: 24.09.2020

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Date of Testing	24.09.2020

BITUMEN CONTENT DETERMINATION

Description	Test 1	Test 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	477.2	477.4
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	22.80	22.60
7. Bitumen content in %	4.56	4.52
8. Average	4.54	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.10
37.5	0	0	0	100	100
26.5	31.9	31.9	6.7	93.3	90 - 100
19	73.5	105.4	22.1	77.9	71 - 95
13.2	66.4	171.8	36.0	64.0	56 - 80
4.75	82.1	253.9	53.2	46.8	38 - 54
2.360	76.1	330	69.2	30.8	28 - 42
0.300	98.6	428.6	89.8	10.2	7 - 21
0.075	22.8	451.4	94.6	5.4	2 - 8

SIEVE SIZE	Test 2				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.10
37.5	0	0	0	100	100
26.5	32.6	32.6	6.8	93.2	90 - 100
19	73.5	106.1	22.2	77.8	71 - 95
13.2	62.5	168.6	35.3	64.7	56 - 80
4.75	86.50	255.1	53.4	46.6	38 - 54
2.360	74.9	330	69.1	30.9	28 - 42
0.300	98.3	428.3	89.7	10.3	7 - 21
0.075	26.5	454.8	95.3	4.7	2 - 8

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CQCE/BBMP/DM/16/2020-2021

Date: 25.08.2020

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Date of Testing	25.08.2020

BITUMEN CONTENT DETERMINATION

Description	Test 1	Test 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	476.9	477.1
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	23.10	22.90
7. Bitumen content in %	4.62	4.58
8. Average	4.60	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.10
37.5	0	0	0	100	100
26.5	29.8	29.8	6.2	93.8	90 - 100
19	74.6	104.4	21.9	78.1	71 - 95
13.2	65.9	170.3	35.7	64.3	56 - 80
4.75	83.1	253.4	53.1	46.9	38 - 54
2.360	75.8	329.2	69.0	31.0	28 - 42
0.300	96.6	425.8	89.3	10.7	7 - 21
0.075	22.1	447.9	93.9	6.1	2 - 8

SIEVE SIZE	Test 2				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.10
37.5	0	0	0	100	100
26.5	33.6	33.6	7.0	93.0	90 - 100
19	74.5	108.1	22.7	77.3	71 - 95
13.2	63.9	172	36.1	63.9	56 - 80
4.75	85.70	257.7	54.0	46.0	38 - 54
2.360	71.5	329.2	69.0	31.0	28 - 42
0.300	96.3	425.5	89.2	10.8	7 - 21
0.075	28.2	453.7	95.1	4.9	2 - 8

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CQCE/BBMP/DM/16/2020-2021

Date: 26.08.2020

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX AASHTO T 164 & AASHTO T 30

	: Executive Engineer, RR Nagar Division, BBMP, Bangalore.
	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
Date of Testing	26.08.2020

BITUMEN CONTENT DETERMINATION

Description	Test 1	Test 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	476.7	477
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	23.30	23.00
7. Bitumen content in %	4.66	4.60
8. Average	4.63	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.10
37.5	0	0	0	100	100
26.5	27.3	27.3	5.7	94.3	90 - 100
19	75.6	102.9	21.6	78.4	71 - 95
13.2	69.3	172.2	36.1	63.9	56 - 80
4.75	85.7	257.9	54.1	45.9	38 - 54
2.360	78.9	336.8	70.7	29.3	28 - 42
0.300	95.8	432.6	90.7	9.3	7 - 21
0.075	21.9	454.5	95.3	4.7	2 - 8

SIEVE SIZE	Test 2				
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.10
37.5	0	0	0	100	100
26.5	31.5	31.5	6.6	93.4	90 - 100
19	75.3	106.8	22.4	77.6	71 - 95
13.2	65.9	172.7	36.2	63.8	56 - 80
4.75	82.30	255	53.5	46.5	38 - 54
2.360	73.1	328.1	68.8	31.2	28 - 42
0.300	95.8	423.9	88.9	11.1	7 - 21
0.075	24.3	448.2	94.0	6.0	2 - 8

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Ref: CQCE/BBMP/DM/16/2020-2021

Date: 28.09.2020

TEST REPORT

Client	:	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
Agency	:	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the work	:	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	28.09.2020

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	51	Min 45
2	Softening point, ^{0}C	50	Min. 47
3	Ductility at 27^{0}C, cm	100 >	Min. 40
4	Flash Point, ^{0}C	273	Min. 220

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CQCE/BBMP/DM/16/2020-2021

Aggregate Impact Value

28.09.2020

	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	28.09.2020

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	22.34	22.11	22.22

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

Note:

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28.09.2020

Aggregate Impact Value

	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
	: Sri.Damodar Manjunath, Contractor, Bangalore.
Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	28.09.2020

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	80	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	300	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	21.30	21.05	21.18

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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Aggregate Impact Value

28.09.2020

	: Executive Engineer, RR Nagar Division, BBMP,Bangalore.
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Name of the Work	:Comprehensive Development of roads and drains in ward no. 16, Rajarajeshwarinagara Assembly Constituency under Package-2019-20 RRN-DIV-(01), BBMP, Bangalore
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	28.09.2020

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	80	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	300	
4	Aggregate Impact value = percent fines			
	100* (W_2/W_1) percent	21.04	21.05	21.05

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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